

WHAT IS CLAIMED IS:

- Sub A1*
1. A fuel hose comprising an inner single layer or multilayer of a fluororesin and an outer single layer or multilayer of a thermoplastic resin, wherein the inner and outer layers are formed by co-extruding materials for the layers, any two materials having a ratio 1 : 40 or below in melt viscosity as expressed in Pa·s.
  2. The hose as set forth in claim 1, wherein the fluororesin is an ethylene-tetrafluoroethylene copolymer (ETFE) or a tetrafluoroethylene-hexafluoropropylene-vinylidene fluoride terpolymer (THV).
  3. The hose as set forth in claim 2, wherein the ~~ETFE is formed of ethylene and tetrafluoroethylene copolymerized in a molar ratio in the range of 70 : 30 to 30 : 70.~~
  4. The hose as set forth in claim 3, wherein the copolymer further contains at least one kind of monomer selected from the group consisting of fluoroolefin, vinylidene fluoride and propylene.
  5. The hose as set forth in claim 2, wherein the ~~terpolymer is formed of tetrafluoroethylene, hexafluoropropylene and vinylidene fluoride copolymerized in a molar ratio 40 to 85 : 5 to 20 : 5 to 55.~~
  6. The hose as set forth in claim 5, wherein the terpolymer is formed of tetrafluoroethylene, hexafluoropropylene and vinylidene fluoride copolymerized in a molar ratio 60 to 85 : 5 to 20 : 5 to 35.
  7. The hose as set forth in claim 1, wherein the fluororesin of the single inner layer, or a radially inside layer of the inner multilayer contains an electrically conductive material.
  8. The hose as set forth in claim 7, wherein the electrically conductive
- Sub A3*

material is selected from the group consisting of carbon black, carbon nanotube and a metal powder.

9. The hose as set forth in claim 7, wherein the fluororesin has a resistance not exceeding  $1 \times 10^{10} \Omega \cdot \text{cm}$ .

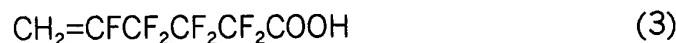
10. The hose as set forth in claim 1, wherein the fluororesin of the single inner layer, or a radially outside layer of the inner multilayer contains at least one kind of reactive functional group.

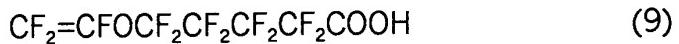
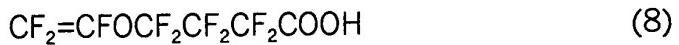
11. The hose as set forth in 10, wherein the reactive functional group is selected from the group consisting of carboxyl, carboxylic anhydride, epoxy, hydroxyl, isocyanate, aldehyde, ester, acid amide, amino, hydrolyzable silyl and cyano groups.

12. The hose as set forth in claim 10, wherein the reactive functional group is formed by copolymerizing the fluororesin with a monomer selected from the group consisting of unsaturated monocarboxylic acids, unsaturated monocarboxylic acids containing fluorine, unsaturated dicarboxylic acids, unsaturated alcohols and unsaturated compounds containing epoxy groups.

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13. The hose as set forth in claim 12, wherein the unsaturated monocarboxylic acids containing fluorine are represented by formulas 1 to 10 below:





14. The hose as set forth in claim 1, wherein the thermoplastic resin is a polyamide.

15. The hose as set forth in claim 14, wherein the polyamide of the single outer layer, or a radially inside layer of the outer multilayer contains amino groups in the amount of at least  $4 \times 10^{-5}$  gram-equivalent per gram.

*QJ 10/25/05*  
16. ~~The hose as set forth in claim 14, wherein the polyamide contains a DBU salt.~~

17. The hose as set forth in claim 15, wherein the amount of amino groups is achieved by melting a diamine, or another amino compound in the polyamide, or modifying its carboxyl groups with amino groups.

18. The hose as set forth in claim 1, wherein the thermoplastic resin is selected from the group consisting of polyethylene, polypropylene, an ethylene-propylene copolymer and an olefic thermoplastic elastomer.

19. The hose as set forth in claim 1, wherein the outer layer is surrounded by a protective resin or rubber layer.

20. The hose as set forth in claim 1, wherein the hose has its wall corrugated along at least a part of its length.